

## VIDEO LOG

**Dive 4202      June 26, 2006**

VCR #1

Pilot- Mark Spear; port observer- Karen von Damm; starboard observer: George Luther

Port Cam 1 of 3

GMT	X,Y	comments
15:37:05*	4215;78923	down-looking sit has great shot of collapse
15:57:45	4140;78897	sitting at young lava flow - lobate
16:10:20	4135;78897	collecting rock sample 1 from fresh lobate
16:24	4143;78909	small collapses in new lobate; light sediment dusting, upper lobes might be somewhat less sedimented
16:40	4426;78898	AST collapse is visible
16:41	4424;78892	small brachyuran crabs
16:44*	4413;78882	M-vent surrounded by new lava
16:49*	4418;78881	HOBO in M vent

Port Cam 2 of 3

1759	4418;78878	Marker 13 on bottom at M vent....marker deployed
1809	4434;78827	Following south along east wall of AST
1814	4431;78777	Arriving at Q
1823*	4414;78767	captured video of Q
1835*	4422;78769	alvinellid on Q chimney
1836*	4424;78770	hobo at Q
1846*	4426;78776	another view of hobo at Q
1854		4436;78775 sulfide sample into grey biobox then majors sample, then other water samples as per diver logs

Port Cam 3 of 3

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2000		deployed echem wand about 0.5 to 1 meter above vent. T max was 90 °C and was let to rest at location with 60 °C. On return Hg was on electrodes and sulfide was deposited and detected on the electrodes. Wiring problem likely for electrodes. 6 photos from std camera 2006_06_26_20_01_41 through 2006_06_26_20_01_52a
2023		recovered old HOBO from Q vent – decision made to break it x=4424 y=78774      hdg= 119      depth 2502
2029		rock sample #6 – basalt from M vent x=4429 y=78776      hdg= 92      depth 2504

Still photos 2006\_06\_26\_20\_27\_17, 2006\_06\_26\_20\_27\_31 and 2006\_06\_26\_20\_27\_38 of std camera.

placed between second and third grey biobox

2035 **left Q vent for Bio9**; many empty tubeworm tubes observed near TICA

2105 **arrive near Bio9** but did not observe active vent; Karen reported possible vent in distance but we were recalled to the surface

2117 dropped weights to return to surface

2250 surface

starboard pan and tilt camera recorded collection and placement of all samples.

Still external photos taken of 3 rock samples.